

DETAILED ACTION

1. Applicant's Appeal Brief dated January 17, 2011, responding to the final Office action mailed August 6, 2010 provided in the rejection of claims 1-24.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
3. Authorization for this examiner's amendment was given in a telephone interview with Mr. Lyren (Reg. No. 40,709) on April 17, 2011 to further amend claims 1, 12, 19, and 22; and cancel claims 2, 13, 15, 21, and 23 to clarify the reference software recited in the base claim 24 by incorporated claim limitations from claims 2, 15, and 23 into the base claims 1, 12, and 22 respectively (see Examiner's Amendment below) and thus to obviate any potential 35 U.S.C 101 and/or 35 U.S.C 112, second paragraph issues and to place the claims in the condition for allowance. A proposed claims amendment has received and adopted by the examiner.
4. The application has been amended as follows:

Art Unit: 2192

IN THE CLAIMS,

Please amend claims 1, 12, 19, and 22; and further cancel claims 2, 13, 15, 21, and 23 as follows:

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method executed by a central processing unit for updating software in an electronic device, the method comprising:
 - generating an update package for updating at least one software application, the update package being generated based upon difference information between the at least one software application and at least one reference software installed on the electronic device;
 - updating the at least one software application using the update package and the at least one reference software; [[and]]
 - wherein the updating leaves the at least one reference software unchanged and the at least one reference software includes files common to a plurality of versions of the software application; and
 - wherein the files common to a plurality of versions of the software application includes at least one of binaries, firmware code, dynamic link libraries (DLLs), and JAVA archives (JAR files) with at least one software application.
2. (Canceled).
3. (Previously Presented) The method according to claim 1, wherein the update package is performed based on the reference software installed on the electronic device

Art Unit: 2192

instead of the software package such that only one update package is disseminated to update multiple different versions of the software application.

4. (Original) The method according to claim 1, further comprising updating multiple update versions of the at least one software application installed on the electronic device is performed using a single update package.

5. (Original) The method according to claim 1, further comprising installing the at least one software application and the at least one reference software as part of a single installation.

6. (Original) The method according to claim 1, further comprising updating the at least one reference software and updating the at least one software application as part of a single update.

7. (Original) The method according to claim 1, wherein the at least one software application comprises a plurality of software applications, and the at least one reference software comprises a plurality of reference software.

8. (Original) The method according to claim 7, further comprising:
identifying a software application needing updating from the plurality of software applications installed on the electronic device; and
identifying whether a reference software corresponding to the software application needing updating is present on the electronic device, wherein if the reference software is not present, then installing the software application and an associated reference software in a single update on the electronic device.

9. (Original) The method according to claim 7, further comprising:
identifying a software application needing updating from the plurality of software applications installed on the electronic device; and

identifying whether a reference software corresponding to the software application needing updating is present on the electronic device, wherein if the reference software is present, then retrieving an update package for the software application needing updating;

verifying the update package; and

installing the update package on the electronic device.

10. (Original) The method according to claim 7, further comprising:

identifying a software application needing updating from the plurality of software applications installed on the electronic device;

determining if the update is needed immediately; and

storing the update until the update is needed immediately.

11. (Original) The method according to claim 10, wherein when the update is determined to be needed immediately, then

invoking an update agent to employ at least the stored update package and reference software; and

updating the software application with the update package.

12. (Currently Amended) A system for updating software, the system comprising:

an electronic device capable of having software installed thereon;

a software delivery device for receiving and installing a reference software to the electronic device if the electronic device does not have the reference software previously installed; [[and]]

the software delivery device receiving and delivering at least one update package to the electronic device, wherein the at least one update package is based on differences between at least one application software and the reference software, and the reference software facilitates, using the at least one update package, at least one update to the application software installed on the electronic device, and wherein the

Art Unit: 2192

updating leaves the reference software unchanged, and the reference software includes a plurality of shared files with the application software; and

wherein the plurality of shared files include at least one of binaries, firmware code, dynamic link libraries (DLLs), and JAVA archives (JAR files) with at least one software application.

13. (Canceled)

14. (Original) The system according to claim 12, further comprising an update generating system, the update generating system comprising a loader manager, the loader manager:

managing loading of application software and application software version updates from the software delivery device;

employing a loader from a loader module; and

employing security services to authenticate software being delivered.

15. (Canceled).

16. (Original) The system according to claim 14, wherein the loader manager is adapted to:

identify an application software needing updating;

identify whether reference software associated with the application software needing updating exists; and

coordinating an update of the application software and an associated reference software in a single update.

17. (Original) The system according to claim 14, wherein the loader manager is adapted to:

retrieve the update package;

access contents of the update package; and

verify the update package.

18. (Original) The system according to claim 14, wherein the loader manager is adapted to determine immediacy of a needed update for a particular application software.

19. (Currently Amended) The system according to claim 12, wherein the software delivery device is one of a server, a Compact Disk Read-only memory (CDROM), and a network.

20. (Original) The system according to claim 12, wherein the electronic device is one of a computer, a digital phone, and a digital camera.

21. (Canceled)

22. (Currently Amended) A method executed by a central processing unit for updating software in an electronic device, the method comprising:

generating a first update package for updating at least one software application, the first update package being generated based upon difference information between a first software version and a reference software corresponding to the at least one software application;

generating a second update package for updating the at least one software application, the second update package being generated based upon difference information between a second software version and the reference software corresponding to the at least one software application;

generating a third update package for updating the at least one software application, the third update package being generated based upon difference information between the first and second update packages; [[and]]

updating the at least one software application using the third update package, wherein the reference software includes files common to the at least one software application and to the second software version; and

wherein the files common to the at least one software application and to the second software version include at least one of binaries, firmware code, dynamic link libraries (DLLs), and JAVA archives (JAR files) with at least one software application.

23. (Canceled)

24. (Previously Presented) A system for updating software, the system comprising:
an electronic device capable of having software installed thereon;

a first update package generator for generating update packages based upon difference information between a version of software and a reference software corresponding to at least one software application;

a second update package generator for generating update packages based upon difference information between different update packages; and

a software delivery device for delivering at least one update package generated based upon difference information between different update packages to the electronic device, wherein the reference software includes at least one of a plurality of shared binaries, firmware code, dynamic link libraries (DLLs), and JAVA archives (JAR files) with the at least one software application.

- END OF AMENDMENT -

Allowable Subject Matter

5. Claims 1, 3-12, 14, 16-20, 22, and 24 (renumbered as 1-19) are allowed.
6. The cited prior arts of record (*Abdallah, Chiang*) taken alone or in combination does not disclose and/or fairly, at least, suggest a method for:

"... updating software ... comprising:

generating an update package for updating at least one software application, the update package being generated based upon difference information between the at least one software application and at least one reference software installed ...;

updating the at least one software application using the update package and the at least one reference software;

wherein the updating leaves the at least one reference software unchanged and the at least one reference software includes files common to a plurality of versions of the software application; and

wherein the files common to a plurality of versions of the software application includes at least one of binaries, firmware code, dynamic link libraries (DLLs), and JAVA archives (JAR files) with at least one software application.", as recited in such manners in independent claim 1 and similarly recited in independent claims 12, 22, and 24.
7. Claims (3-11) and (14, 16-16-20) are considered allowable by virtue of their dependence on allowable independent claims 1 and 12 respectively.
8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Art Unit: 2192

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ben C. Wang whose telephone number is (571) 270-1240. The examiner can normally be reached on 8:00-5:30 (EST/EDT), Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

Art Unit: 2192

have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ben C Wang/

Examiner, Art Unit 2192

/Michael J. Yigdall/

Primary Examiner, Art Unit 2192